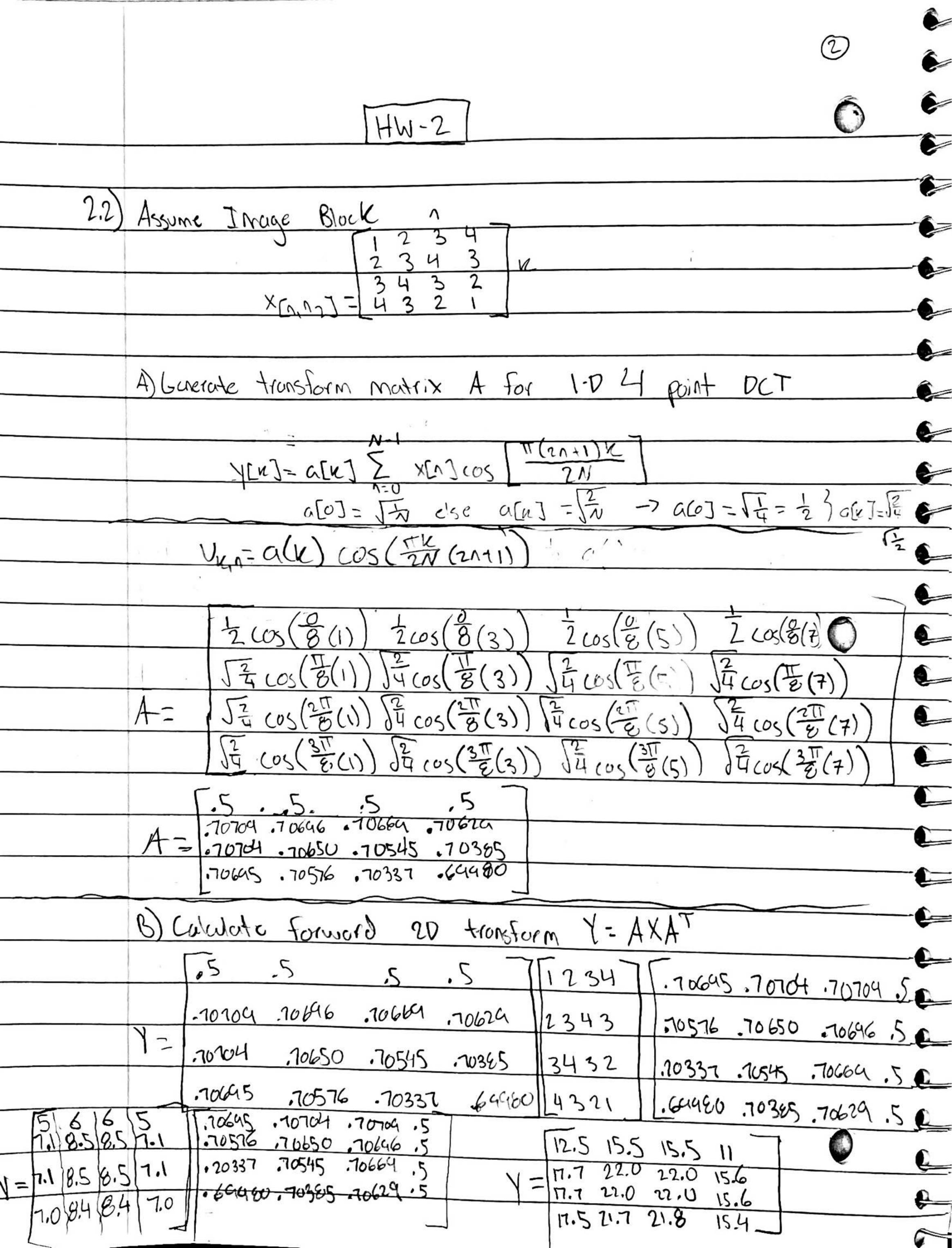
١.	¥0	_
1	1 1	1
-	$1 \wedge 1$	/
1	1 .0	

	+							
			(1.5)					
2.1	(omorte	10 inver X[v] = 31	se DFT	of	Fourier	Coefficient	s for N	'=4
•	V V V	x[v7 = 51	n -2 +2A	· - 2	-2-213			277
		7 4	7	1		W* = e57	17 3 WN = e	N
	XN =	WX XN						
	UXI	444	1 .	2	3			
	(x6)	0 W4	W4°	Wyto	Wy	x(0)		
	x(1)	- 1 1 W3	to With	MASS	W43	x(1)		
	X(2)	H 2 W	40 W4*2	Wy*4	W4*°	x(2)		
	X(3)	3 W	4 W4 X3	Maxe	Wy 4	x(3)		
	M" 70 = 1							
	W1, 2 C	1=1=cost	27) + 15:	n (24)	= 1			
	M" + 5 = 6	17-12-cos(17)+ 1sin(=(π	-1			
	W4 = c	1=1-1	•					
	M/ = = = 22	7.4 > 1						
	Wy +6 = e 22	7.6 = -1						
A .	N.C.							

	wy									
	W44 = e	124.9=	2							
	[x(0)	7	1	١	١	1	10		H,	?
	x(1)	_ 1	1	5	-1	-1	-2+27	_	8 -	7.1
1	X(2)	- 4	١	-1	1	-1	-2	-	8	- 1 - 1 - 1 - 1 - 1
	X(33)		١	-1	-\	5	-2-27		16	, , ,
4							 			

x(n)=54,8,8,163



-	(3)
-9	
-	HW-2
3	
-	.3) Period of sinvspid = .25mm
-	eye is 20mm in diameter w/ foral point of 3mm
-3-	from the vens
-9	A) What is the vertical spatial frequency of the projection when
_3	Viewed at 25cm away? In units of cycles/degree
-3	de de la companyage
-3	1 100000
	250 mm
_3	hr= .017mm df= 17mm
	$\theta = tan'(.017)47343$
	& cycles/degree = 107393 % 1.027 cycles/degree
	B) Retermine Optimal viewing distance for this image
	(projection of the image has a spotial frequency blu 3210 cyles/degrae
	on (ctina)
	4 cycles/degree = = hr = do
	$\theta = .25$ 17mm (.25mm)
	$tan(\theta) = hr$ $0044 = x$
	ten(.25) = .0044 4.25mm
	•0044 = X
	4.25 = .0044x
	x = 965.91 mm - 96.591 cm

[HW-2]

24) Consider 2 valid colors (C, C2) W/ coordinates (X, Y, and (x2x2) in the chromaticity diagram. Derive the expression(s) for computing the relative percentages of advir 4 and composing a given color c that is Known to lie of the stroight line poining these colors () P, = % of color C, inc X1227 12-% of 1 colve C, in C when C=C2 -> P1 = 010 and P2 = 100%

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